MADELINE HESS

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EDUCATION

Dartmouth College, Hanover, NH   **SEPT. 2015 – JUN. 2019**
Bachelor of Arts, Majors: (1) Economics, and (2) Quantitative Social Science with specialty in Government   **GPA: 3.19/4.00**
Awards and Honors: Completed the Rockefeller Management and Leadership Development Program with Excellence

Tamalpais High School, Mill Valley, CA   **AUG. 2011 – JUN. 2015**
Awards and Honors: Graduated with Highest Honors and as a four-year Scholar Athlete   **GPA: 4.37/4.00**

EXPERIENCE

College Pulse, LLC. Hanover, New Hampshire   **AUG. 2017 – PRESENT**
Data Analyst, Head of Publishing
- Lead initiative to develop publishing branch for this startup and steward team of reporters with strong quantitative skills
- Gather and synthesize public opinion data using survey data complemented by web-scraping techniques
- Statistical analysis of data for unusual findings, correlations, and prediction relationships using R, Stata and other software
- Translate findings into articles and data visualizations that are interesting and understandable using D3 and JavaScript
- Troubleshoot data analysis, management and visualization problems, website issues, and survey generation

Dartmouth College Government Department, Hanover, New Hampshire   **JUN. 2017 – PRESENT**
Researcher (PI Professor William Wohlforth, Ph.D.)
- Compile historical case studies in which Great Power nations interfere with one other during identity crises as part of a team
- Investigate US intervention in Central Asia and covert provocation of oppressed Muslim populations during the Cold War
- Analyze recently declassified United States intelligence memos to develop theories of interaction
- Persuasively apply dense and technical theories of international relations

University of California San Francisco, San Francisco, California   **JUN. 2016 – SEPT. 2016**
Summer Intern and Software Developer, Department of Radiology (PI Professor Duan Xu, Ph.D.)
- Constructed digital signal processing algorithm to discern details of brain tumor metabolism in patients using Python and C++
- Integrated this technique into SIVIC, a larger data visualization package built by a team of UCSF researchers
- Assisted in developing a computational pipeline for researchers to process multi-voxel time series data of brain development implemented through MATLAB

INVOLVEMENT & LEADERSHIP

Dog Days of Summer: Improvised Comedy, Dartmouth College, Hanover, NH   **JUN. 2017 – SEPT. 2017**
Long-Form Improvisational Comic
- Think quickly and creatively and listen closely to teammates to develop entertaining scenes
- Take leadership and communicate confidently to turn ideas into reality in front of audiences of up to 150 people

Inter-Sorority Council, Dartmouth College, Hanover, NH   **MAR. 2016 – PRESENT**
Vice President of Finance
- Manage the overarching financial scholarship of Dartmouth's sorority system, which consists of over 1,000 members
- Utilize quantitative skills in redesigning the distribution of roughly $7,000 of termly aid to houses to be more equitable
- Assist in designing and operating sorority recruitment for roughly 450 incoming new members

Tutor Clearing House, Dartmouth College, Hanover, NH   **JAN. 2016 – JUN.2017**
Tutor and Study Group Leader in Mathematics and Economics
- Teach students economics and mathematics in intensive one-on-one meetings or in groups of 12
- Hone verbal explanation skills in advanced topics such as microeconomics and game theory, international- and macroeconomics, calculus, and linear algebra

SKILLS & INTERESTS

Technical: Excellent skills in Microsoft Word, Excel and PowerPoint. Proficient in Python, MATLAB, Stata, R, D3, HTML and CSS.
Languages: Fluent in English. Literate and conversant in Spanish.
Affiliations: Association of Women in Mathematics, Dartmouth Outing Club, Kappa Kappa Gamma National Fraternity for Women

References available upon request.